## **Listing of Claims**

This listing of claims replaces all prior versions and listings of claims in the patent application.

1. (Original) A pressure sensor comprising a silicon structure having a conductive diaphragm, the silicon structure being bonded on a substrate, which comprises an electrode covered by a dielectric film, so that the diaphragm and the electrode are facing each other and there is a gap between the diaphragm and the dielectric film, the pressure sensor measuring a pressure applied thereto by detecting capacitance according to the area of a contact face of the diaphragm which touches the dielectric film when the pressure is applied;

the concentration of an impurity at the top face of the diaphragm being equal to or greater than  $1\times10^{19}$  cm<sup>-3</sup> and less than  $9\times10^{19}$  cm<sup>-3</sup>.

- 2. (Withdrawn)
- 3. (Withdrawn)
- 4. (Original) A pressure sensor comprising a silicon structure having a conductive diaphragm, provided by doping of an impurity and anisotropic etching, the silicon structure being bonded on a substrate, which comprises an electrode covered by a dielectric film, so that the diaphragm and the electrode are facing each other and there is a gap between the diaphragm and the dielectric film, the pressure sensor measuring a pressure applied thereto by detecting capacitance according to the area of a contact face of the diaphragm which touches the dielectric film when the pressure is applied;

the etch pit density on the top face of the diaphragm being equal to or less than five per  $\mu m^2$ .

- 5. (Withdrawn)
- 6. (Withdrawn)



Q1

7. (Withdrawn)